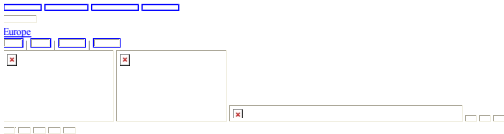


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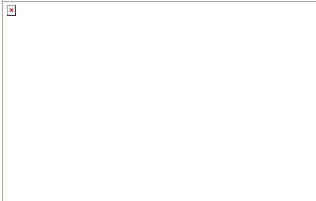
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M3A-HS71G50

M3A-HS71G50

Tool Stock and Availability

Please contact your distributor for the orderable part number for this device.



Notice

- Power supply and development tool are not included in this product. Following items should be prepared by user before using this CPU board.
 - 5V DC Power supply (1.5A min.)
 - SuperH RISC engine C/C++ compiler package
 - E10A-USB emulator

Product Information

CPU	Part number	Operating voltage	CPU mounting	SDRAM	EEPROM	FLASH ROM
SH7670	M3A-HS71G50	IO: 3.3V DC Internal: 1.2V DC	Mounted on board directly	Implemented	Implemented	Implemented

Features

- M3A-HS71 is a CPU board equipped with SH7670 (SH-2A core, operating at 200MHz, 256-pin version).
 - Comes standard with USB and LAN connectors.
 - Comes standard with MPEG transport stream interface (STIF) connector, MIL-STD.
 - Easy for evaluation of on-chip peripheral I/O's and system extension
 - All SH7670 I/O ports are connected to extension connector's (*1) to enable to develop the extension board for variety of use.
 - H-UDI connector (14-pin), which can be connected with E10A-USB (*2) is mounted on board.
- *1: Connectors except USB, LAN and STIF are through-hole.
*2: Optional item

Specifications

Item	Specification
Ethernet	<ul style="list-style-type: none">RJ-45 LAN connector built-in pulse transformer (8-pin, RJ-45)Implements PHY-LSI RTL8201CP-VD-LF of Realtek
USB	<ul style="list-style-type: none">USB connector: Comes with A-type socketVBUS power controlled
Connectors through-hole	<ul style="list-style-type: none">H-UDI connector (14-pin)Serial port connector (RS-232C, 9-pin, D-sub)20-pin MIL-STD connectorSH7670 extension connector: 4pcs, SH7670 STIF connector: 2pcs40-pin MIL-STD connectorSH7670 extension connector: 2pcs
LED	<ul style="list-style-type: none">Power LED (1 pc.)User LED (4pcs.)Ethernet communication status LED (5pcs.)
Switch	<ul style="list-style-type: none">Reset switch, NMI switch, IRQ0 switch, test switchDIP switch for DIP mode setting (1pc, 5 poles)User DIP switch (1pc, 4poles)PHY controller operation mode switch (1pc, 6poles)
Dimensions	<ul style="list-style-type: none">Dimensions: 145mm x 150mm (Projection not included)CPU mounting: 4-layer, double-side mountedBoard configuration: 1 board
Accessories	<ul style="list-style-type: none">CD-ROMUser's Manual (Circuit diagram included)Installation ManualSample program (testing example of bus controller, Ethernet sample program, USB sample program et al.)Release NotePower cable <p>Note: Following items should be prepared by user. (Not included in this product)</p> <ul style="list-style-type: none">- 5V DC power supply (1.5A min.)- SuperH RISC engine C/C++ compiler package- E10A-USB emulator

Product Appearance

Top view of component side



Top view of solder side



Documentation

File Name	File Size	Contents
rc11f0012_m3a_hs71um.pdf	3600KB	M3A-HS71 User's Manual (Rev.1.01)
rc11f0015_m3a_hs71inst.pdf	2418KB	M3A-HS71 Installation Manual (Rev.1.01)

